

IN THE CLAIMS

1. (cancelled)

2.(previously amended) The method of Claim 5 wherein the content of the second information units is the same as the content of the first information units.

3.(previously amended) The method of Claim 5 wherein the units are data frames or packets of data.

4.(previously amended) The method of Claim 5 wherein monitoring is performed by the transmitting station based on information provided by the receiving station.

5. (previously amended) A method of transferring traffic information in units over a wireless digital communications link between a transmitting station and a receiving station comprising the steps of:

transmitting first information units at a first power level;

monitoring if correct reception of the transmitted units occurred; and

transmitting second information units associated with the first information units, for which

first information units the monitoring did not indicate correct reception occurred, at a second power

level which is greater than the first power level, the second information units allowing the content of

the first information units to be established;

wherein the first power level is selected to increase a probability of failed first information

units transmission and of consequent second information units transmission and to minimize

12 average power consumption taking into account the first power level and the second power level,
13 said first power level being the lowest level to correspond to a maximum allowable probability of
14 failed first information units transmission and said consequent second information units
15 transmission.

6 -7. (cancelled)

1 8.(previously amended) The communication system of Claim 12 wherein the content of the
2 second information units is the same as the content of the first information units.

1 9.(previously amended) The transmitter station of Claim 13 wherein the content of the second
2 information units is the same as the content of the first information units.

1 10.(previously amended) The communication system of Claim 12 wherein the system is a
2 cellular mobile radio telephone system.

1 11.(previously amended) The transmitter station of Claim 13 wherein the transmitter station is
2 employed as a component of a cellular mobile radio telephone system.

1 12.(previously amended) A digital wireless communications system comprising:
2 at least one transmitter having means for transmitting first information units at a first power
3 level;
4 at least one receiver having means for receiving the transmitted information units;

5 control means for controlling the transmitter output power; and

6 monitoring means for monitoring if correct reception of the transmitted units occurred at the

7 receiver,

8 wherein the transmitting means transmits second information units associated with the first

9 information units for which first information units the monitoring means does not indicate correct

10 reception has occurred, the second information units being transmitted at a second power level that is

11 greater than the first power level, the second power level being selected by the control means, and

12 wherein the second information units allow the content of the first information units to be established,

13 and

14 wherein the control means selects the first power level to control the average power

15 consumption of the transmitter in order to increase a probability of failed first information units

16 transmission and of consequent second information units transmission and to minimize average power

17 consumption taking into account the first power level and the second power level.

1 13.(previously amended) A transmitter station for digital wireless transmission of traffic
2 information to a receiver, said transmitter station comprising:

3 a transmitter for transmitting first information units at a first power level;

4 control means for controlling the transmitter output power; and

5 monitoring means for monitoring if correct reception of the transmitted units occurred at the

6 receiver,

7 wherein the transmitter transmits second information units associated with the first information

8 units for which first information units the monitoring means does not indicate correct reception has

9 occurred, the second information units being transmitted at a second power level that is greater than the

10 first power level, the second power level being selected by the control means, and wherein the second
11 information units allow the content of the first information units to be established, and
12 wherein the control means selects the first power level to control the average power
13 consumption of the transmitter in order to increase a probability of failed first information units
14 transmission and of consequent second information units transmission and to minimize average power
15 consumption taking into account the first power level and the second power level.

1 14.(previously amended) A method of transferring traffic information in units over a
2 wireless digital communications link between a transmitting station and a receiving station
3 comprising the steps of:
4 transmitting first information units at a first power level;
5 monitoring if correct reception of the transmitted units occurred; and
6 transmitting second information units associated with the first information units, for which first
7 information units the monitoring did not indicate correct reception occurred, at a second power level
8 which is greater than the first power level, the second information units allowing the content of the first
9 information units to be established;

10 wherein the first power level is selected to control the average power consumption of the
11 transmitting station in order to increase a probability of failed first information units transmission and
12 of consequent second information units transmission and to minimize average power consumption
13 taking into account the first power level and the second power level.

1 15.(previously added) A transmitter station comprising:

2 a transmitter which transmits first information at a first power level and transmits second
3 information which includes at least portions of said first information at a second power level upon
4 indication that said at least portions have not been correctly received by a receiver, said second power
5 level being greater than said first power level; and

6 a controller which selects said first power level to increase a probability of said at least portions
7 that have not been correctly received by said receiver and of consequent transmission of said at least
8 portions at said second power level to minimize average power consumption taking into account the
9 first power level and the second power level.

1 16. (previously added) A method of transferring information in units over a wireless digital
2 communications link between a transmitting station and a receiving station, the method
3 comprising:

- 4 • transmitting first information units at a first power level;
- 5 • monitoring if correct reception of the transmitted units occurred; and
- 6 • transmitting second information units associated the first information units, for those
7 first information units for which monitoring did not indicate correct reception
8 occurred, at a second power level that is greater than the first power level, the second
9 information units allowing the content of the first information units to be established,
10 wherein the second information units include forward error correction information associated
11 with the first information units.

17. (previously added) The method of claim 16, wherein the forward correction information is enhanced.

1 18. (previously added) A method of transferring information in units over wireless digital
2 communications link between a transmitting station and a receiving station, comprising:
3 • transmitting first information units at a first power level;
4 • monitoring if correct reception of the transmitted units occurred; and
5 • transmitting second information units associated the first information units, for those
6 first information units for which monitoring did not indicate correct reception
7 occurred, at a second power level that is greater than first power level, the second
8 information units allowing the content of the first information units to be established,
9 • transmitting further information units, associated with the first and second
10 information units, for those second information units for which monitoring did not
11 indicate correct reception occurred, at at least one third power level, the third
12 information units allowing the content of the first and/or second information units to
13 be established, with each successive power level after the second progressively
14 increasing.

1 19. (previously added) The method of claim 18, wherein, after a predetermined limit of further
2 transmissions related to the first information units, new information not related to the first
3 information units is transmitted.

1 20. (previously reinstated, formerly claim 1) A method of transferring traffic information in units
2 over a wireless digital communications link between a transmitting station and a receiving station
3 comprising the steps of:

- 4 • transmitting first traffic information units at a first power level;
- 5 • monitoring if correct reception of the transmitted units occurred; and
- 6 • transmitting second information units associated with the first information units, for which
- 7 first information units the monitoring did not indicate correct reception occurred, at a second
- 8 power level which is greater than the first power level, the second information units
- 9 allowing the content of the first information units to be established.

1 21. (previously added) The method of claim 20, wherein

- 2 • the first traffic information is of a nature that must be received in real-time by a user; and
- 3 • the second information is transmitted sufficiently quickly and with sufficient increased
- 4 power so that a delay perceived by the user in successful reception of the first traffic
- 5 information is below a desired threshold.

22. (previously reinstated, formerly claim 2) The method of Claim 20 wherein the content of the second information units is the same as the content of the first information units.

23. (previously added) The method of claim 20, wherein the content of the second information comprises a portion of the content of the first transmission units.

24. (previously added) The method of claim 20, wherein the second information comprises error correction information.

25. (previously added) The method of claim 24, wherein the error correction information comprises forward error correction information.

26. (previously added) The method of claim 24, wherein the second information comprises enhanced error correction information.

27. (previously added) The method of claim 25, wherein the enhanced error correction information comprises enhanced forward error correction information.

28 (previously reinstated, formerly claim 3) The method of Claim 20 wherein the units are data frames or packets of data.

29 (previously reinstated, formerly claim 4) The method of Claim 20 wherein monitoring is performed by the transmitting station based on information provided by the receiving station.

1 30. (currently amended) The method of claim 20, wherein transmitting second information units
2 comprises a plurality of transmissions of further information, which plurality comprises a number of
3 transmissions that is less than or equal to a threshold number, which threshold number depends
4 upon a battery capacity of the transmitting station.

31. (previously added) The method of claim 20, wherein the transmitting of first information comprises at least one re-transmission at the first power level prior to the transmission of the second information.

32. (previously added) The method of claim 20, further comprising, upon reception, combining the first and second information to achieve recognition of an intended content.

1 33. (previously reinstated, formerly claim 6) A digital wireless communications system
2 comprising

- 3 • at least one transmitter having means for transmitting first traffic information units at a first
4 power level;
5 • at least one receiver having means for receiving the transmitted information units;
6 • control means for controlling the transmitter output power; and
7 • monitoring means for monitoring if correct reception of the transmitted units occurred at the
8 receiver,

9 wherein

- 10 • the transmitting means transmits second information units associated with the first
11 information units for which first information units the monitoring means does not
12 indicate correct reception has occurred,
13 • the second information units are transmitted at a second power level that is greater than
14 the first power level, the second power level being selected by the control means, and
15 • the second information units allow the content of the first information units to be
16 established.

34. (previously reinstated, formerly claim 8) The communication system of Claim 33 wherein the content of the second information units is the same as the content of the first information units.

35. (previously reinstated, formerly claim 10) The communication system of Claim 33 wherein the system is a cellular mobile radio telephone system.

1 36. (previously reinstated, formerly claim 7) A transmitter station for digital wireless
2 transmission of traffic information to a receiver, said transmitter station having:

- 3 • a transmitter for transmitting first traffic information units a first power level;
4 • control means for controlling the transmitter output power; and
5 • monitoring means for monitoring if correct reception of the transmitted units occurred at the
6 receiver,

7 wherein

- 8 • the transmitter transmits second information units associated with the first information units
9 for which first information units the monitoring means does not indicate correct reception
10 has occurred,
11 • the second information units are transmitted at a second power level that is greater than the
12 first power level, the second power level being selected by the control means, and
13 • the second information units allow the content of the first information units to be
14 established.

37. (previously reinstated, formerly claim 9) The transmitter station of Claim 36 wherein the content of the second information units is the same as the content of the first information units.

38. (previously reinstated, formerly claim 11) The transmitter station of Claim 36 wherein the transmitter station is employed as a component of a cellular mobile radio telephone system.
